UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



Richard McMillin

Region 6 Laboratory Manager

Region 6 Laboratory

Environmental Services Branch 10625 Fallstone Road, Houston, TX 77099 Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

	Site NameOil Trust Fund	
	Sample Collection Date(s) 09/16/10	
	Contact Rich Mayer (6PD-F)	
	Report Date09/23/10	
	Project # 10REG281	
	Work Order(s)1009044	
Analyses included in this rep	eport:	
LC DOSS		
Report Narrative		
DOSS was not found at o	or above the reporting limit for samples in work order 100904	4
NoteDOSS was not for	ound at or above the 10ug/L (ppb) level of interest	
	r quality assurance and quality control were followed in the a results. The results apply only to the samples tested. This ced in full.	
Reporting limits are adju	usted for sample size and matrix interference.	
Report Approvals:		

David Neleigh

Region 6 Laboratory Branch Chief

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Please provide a reason for holding:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Oil Trust Fund	Project Number: 10REG281
Data Management Coordinator: Christy Warren	/ /
Data Management Coordinator Signature	Date
Date Transmitted:/	
Please have the U.S. EPA Project Manager/Office comments or questions.	r call the Data Management Coordinator at 3-2137 for any
Please sign and date this form below and return it	with any comments to:
Christy Warren Data Management Coordinator Region 6 Laboratory 6MD-HS	
Received by and Date	
Comments:	
The laboratory routinely disposes of samples 90 days hold these samples in custody longer than 90 days	ays after all analyses have been completed. If you have a need to s, please sign below.
Signature	Date



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
T001-R681-100916-SW-17-1	1009044-01	Liquid	9/16/10 14:45	09/17/10 09:35
T001-R681-100916-SW-32-1	1009044-02	Liquid	9/16/10 14:20	09/17/10 09:35
T001-R682-100916-SW-17-1	1009044-03	Liquid	9/16/10 9:55	09/17/10 09:35
T001-R682-100916-SW-32-1	1009044-04	Liquid	9/16/10 9:30	09/17/10 09:35
T001-R683-100916-SW-17-1	1009044-05	Liquid	9/16/10 12:15	09/17/10 09:35
T001-R683-100916-SW-32-1	1009044-06	Liquid	9/16/10 11:45	09/17/10 09:35
T008-R686-100916-SW-10-1	1009044-07	Liquid	9/16/10 13:00	09/17/10 09:35
T008-R686-100916-SW-20-1	1009044-08	Liquid	9/16/10 12:41	09/17/10 09:35
T008-R687-100916-SW-11-1	1009044-09	Liquid	9/16/10 9:59	09/17/10 09:35
T008-R687-100916-SW-22-1	1009044-10	Liquid	9/16/10 9:54	09/17/10 09:35

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1009044-01

Batch: B0I2101 Sample Type: Liquid Station ID: T001-R681-100916-SW-17-1

Date Collected: 09/16/10 Sample Volume: 22 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	176		95.6	50-150	09/21/10 09/21/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.5	1	09/21/10 09/21/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

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DOSS by LC/MS/MS

Lab ID: 1009044-02

Batch: B0I2101 Sample Type: Liquid

Station ID: T001-R681-100916-SW-32-1 Date Collected: 09/16/10

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	164		93.3	50-150	09/21/10 09/21/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	09/21/10 09/21/10

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Region 6 Laboratory

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DOSS by LC/MS/MS

Lab ID: 1009044-03

Dioctyl sulfosuccinate, sodium salt (577-11-7)

Batch: B0I2101 Sample Type: Liquid Date Collected: 09/16/10 Sample Volume: 20 ml

Sample Qualifiers:

09/21/10 09/21/10

Station ID: T001-R682-100916-SW-17-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	202		100	50-150	09/21/10	09/21/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	•	Prepared	Analyzed

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more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1009044-04

Batch: B0I2101 Sample Type: Liquid Date Collected: 09/16/10 Sample Volume: 20 ml

Sample Qualifiers:

Station ID: T001-R682-100916-SW-32-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	209		104	50-150	09/21/10 09/21/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.5	1	09/21/10 09/21/10

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Region 6 Laboratory

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DOSS by LC/MS/MS

Lab ID: 1009044-05

Batch: B0I2101 Sample Type: Liquid Date Collected: 09/16/10 Sample Volume: 20 ml

Sample Qualifiers:

Station ID: T001-R683-100916-SW-17-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	206		102	50-150	09/21/10	09/21/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed

Analyte (CAS Number) $\mu g/l$ Qualifiers Limit Dilution Prepared Analyzed Dioctyl sulfosuccinate, sodium salt (577-11-7) U 20.0 1 09/21/10 09/21/10

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Region 6 Laboratory

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DOSS by LC/MS/MS

Lab ID: 1009044-06

Batch: B0I2101 Sample Type: Liquid

Station ID: T001-R683-100916-SW-32-1

Date Collected: 09/16/10 Sample Volume: 20 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	208		103	50-150	09/21/10 09/21/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	09/21/10 09/21/10

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Region 6 Laboratory

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DOSS by LC/MS/MS

Lab ID: 1009044-07

Batch: B0I2101 Sample Type: Liquid Date Collected: 09/16/10 Sample Volume: 21 ml

Sample Qualifiers:

Station ID: T008-R686-100916-SW-10-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyz	ed
Surr: DOSS-D34	196		102	50-150	09/21/10 09/21/2	10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyz	æd
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	09/21/10 09/21/2	10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1009044-08

Batch: B0I2101 Sample Type: Liquid

Station ID: T008-R686-100916-SW-20-1 Date Collected: 09/16/10

Sample Volume: 19 ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	220		104	50-150	09/21/10	09/21/10
		Targets				
Analyta (CAC Nyymhau)	Result	Analyte	Reporting	D'1 .:	D 1	

μg/l Qualifiers Limit Dilution Prepared Analyzed Dioctyl sulfosuccinate, sodium salt (577-11-7) U 20.0 1 09/21/10 09/21/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

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DOSS by LC/MS/MS

Lab ID: 1009044-09

Batch: B0I2101 Sample Type: Liquid Date Collected: 09/16/10 Sample Volume: 22 ml

Sample Qualifiers:

Station ID: T008-R687-100916-SW-11-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	181		98.7	50-150	09/21/10 09/21/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit		Prepared Analyzed

 Analyte (CAS Number)
 μg/l
 Qualifiers
 Limit
 Dilution
 Prepared Analyzed

 Dioctyl sulfosuccinate, sodium salt (577-11-7)
 U
 20.0
 1
 09/21/10
 09/21/10

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Region 6 Laboratory

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DOSS by LC/MS/MS

Lab ID: 1009044-10

Batch: B0I2101 Sample Type: Liquid Date Collected: 09/16/10 Sample Volume: 31 ml

Sample Qualifiers:

Station ID: T008-R687-100916-SW-22-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	130		100	50-150	09/21/10	09/21/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.7	1	09/21/10	09/21/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS - Quality Control

Batch: B0I2101 Sample Type: Liquid

Blank (**B0I2101-BLK1**)

Prepared: 9/21/2010 Analyzed: 9/21/2010

Surrogates

	Result	Analyte	Spike		%REC
ANALYTE	μg/l	Qualifier	Level	%REC	Limits
Surr: DOSS-D34	200		202	99.1	50-150

Blank (**B0I2101-BLK1**)

Prepared: 9/21/2010 Analyzed: 9/21/2010

Targets

ANALYTE		Analyte Reporting Qualifiers Limit
Dioctyl sulfosuccinate, sodium	U	20.0

salt

LCS (B0I2101-BS1)

Prepared: 9/21/2010 Analyzed: 9/21/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: DOSS-D34	200		202	98.8	50-150

LCS (B0I2101-BS1)

Prepared: 9/21/2010 Analyzed: 9/21/2010

Targets

ANALYTE	Result	Analyte Reporting	Spike	%REC
	µg/l	Qualifiers Limit	Level	%REC Limits
Dioctyl sulfosuccinate, sodium salt	94.1	20.0	94.9	99.2 50-150

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS - Quality Control

Batch: B0I2101 Sample Type: Liquid

Matrix Spike (B0I2101-MS1)

Source: 1009044-02 Prepared: 9/21/2010 Analyzed: 9/21/2010

Surrogates

ANALYTE	Result	Analyte	Spike	%REC
	µg/l	Qualifier	Level	%REC Limits
Surr: DOSS-D34	179		176	102 50-150

Matrix Spike (B0I2101-MS1)

Prepared: 9/21/2010 Analyzed: 9/21/2010 Source: 1009044-02

Targets

ANALYTE		Analyte Reporting Qualifiers Limit			%REC Limits	
Dioctyl sulfosuccinate, sodium	77.4	20.0	82.5	93.8	50-150	

salt

Matrix Spike Dup (B0I2101-MSD1)

Prepared: 9/21/2010 Analyzed: 9/21/2010 Source: 1009044-02

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: DOSS-D34	184		184	100	50-150

Matrix Spike Dup (B0I2101-MSD1)

Source: 1009044-02 Prepared: 9/21/2010 Analyzed: 9/21/2010

Targets

ANALYTE		Analyte Reporting Qualifiers Limit			%REC Limits	RPD	RPD Limit
Dioctyl sulfosuccinate, sodium salt	83.9	20.0	86.3	97.2	50-150	3.57	30

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Region 6 Laboratory

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Sample # Analyses Matrix Collect Collected Sample Numb Container Preservativ MSMS Description Matrix Collect Collected Sample Container Contai	713-985-6600 US EPA/Weston Venice, LA	E.			R06 Dee	Deep H2O Horizon Rep Lab: EPA Houston Lab Lab_State: TX	R06 Deep H2O Horizon Reporting Lab: EPA Houston Lab Lab_State: TX	225				Lab	AirbillNo: Lab_City: Houston Lab_Zip: 77099
1-100916-SW-17-1 DOSS		ole #	Analyses		Matrix	Collect ion Method	Collected	Sample Time	Numb	Container	Preservativ e	MS/MS D	Description
1-100916-SW432-1 DOSS Surface Water Grab 91/6/2010 14.20 6 20 m VOA 4 C N	T001	-R681-100916-SW-17-1	DOSS		Surface Water		9/16/2010	14:45	2	20 ml VOA	4 C	z	
### Samples Number Dose Surface Water Grab 91/6/2010 09:55 2.20 m VOA 4 C N	T001	-R681-100916-SW-32-1	DOSS		Surface Water		9/16/2010	14:20	9	20 ml VOA	4 C	>	
### Surface Water Grab 9/18/2010 12-15 2 20 mI VOA 4 C N N Surface Water Grab 9/18/2010 12-15 2 20 mI VOA 4 C N N Surface Water Grab 9/18/2010 12-15 2 20 mI VOA 4 C N N N Surface Water Grab 9/18/2010 12-15 2 20 mI VOA 4 C N N N Surface Water Grab 9/18/2010 12-15 2 20 mI VOA 4 C N N N N N N N N N N N N N N N N N N	T001	-R682-100916-SW-17-1	DOSS		Surface Water		9/16/2010	99:56	2	20 ml VOA	4 C	z	
### Surface Water Grab 9116/2011 12:15 2 20 ml VOA 4 C N N Surface Water Grab 9116/2011 11:45 2 20 ml VOA 4 C N N Surface Water Grab 9116/2011 11:45 2 20 ml VOA 4 C N N Surface Water Grab 9116/2011 11:45 2 20 ml VOA 4 C N N Surface Water Grab 9116/2011 11:45 2 20 ml VOA 4 C N N Surface Water Grab 9116/2011 11:45 2 20 ml VOA 4 C N N Surface Water Grab 9116/2011 11:45 2 20 ml VOA 4 C N N Surface Water Grab 9116/2011 11:45 2 20 ml VOA 4 C N N Surface Water Grab 9116/2011 11:45 2 20 ml VOA 4 C N N Surface Water Grab 9116/2011 11:45 2 20 ml VOA 4 C N N Surface Water Grab 9116/2011 11:45 2 20 ml VOA 4 C N N Surface Water Grab 9116/2011 11:45 2 20 ml VOA 4 C N N N Surface Water Grab 9116/2011 11:45 2 20 ml VOA 4 C N N N Surface Water Grab 9116/2011 11:45 2 20 ml VOA 4 C N N N Surface Water Grab 9116/2011 11:45 2 20 ml VOA 4 C N N N Surface Water Grab 9116/2011 11:45 2 2 20 ml VOA 4 C N N N N Surface Water Grab 9116/2011 11:45 2 2 20 ml VOA 4 C N N N N N N N N N N N N N N N N N N	T001	-R682-100916-SW-32-1	DOSS		Surface Water		9/16/2010	08:30	2	20 ml VOA	4 C	z	
Relinquished by Date Received by Date Time items/Reason Relinquished by Date Received by Object Time items/Reason Relinquished by Date Received by Date Time items/Reason Relinquished by Date Received by Date Time items/Reason Relinquished by Date Received by Date Milks 1,1010 9000 wilks 1,335 1,1010 9000 wilks 1,1010	T001	-R683-100916-SW-17-1	DOSS		Surface Water		9/16/2010	12:15	2	20 ml VOA	40	z	
Relinquished by Date Received by Date Time items/Reason Relinquished By Date Received by Date MMM UM: 1/16/16 William 1-16-16 3000 William 35.35 MMM April 1-16-16 3000 William 35.35 MMM April 1-16-16 3000 William 3-16-16 MMM April 1-16-16	T001	-R683-100916-SW-32-1	\$500		Surface Water		9/16/2010:	95	2	20 ml VOA	4 C ANNSFERRED	R ROM	
Relinquished by Date Received by Date Time themsReason Relinquished By Date Received by Date And Unit 11/10 At 5 - 15-10 3000 July H. 8355 Mills H. 9-15-10 July H. 8355 Mills H. 9-17-10 July H. 8355 Mills H. 9-17-10 July H. 8355 July H. 9-17-10 July H. 8355 July H. 9-17-10 July H. 9	pecial Instruc	ions:								CHAIN OF CI	USTODY#		
	Items/Reaso	Relinquished to Brown Co.	116 0 Will 80	the H	5-16-10 5-16-10	30co 30co	lems/Reak		Ilinquished i	h	MILIE	000	146 248 17970 918

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Analyses	Sample # Analyses	Conta	Contact: Kristle Warr Phone: 713,985,6636		R06_Deep	R06_Deepwater_Grand_Isle	Isle			Lab: U.S	Lab: U.S. EPA Region 6 Laboratory Lab Phone: 281-983-2137	AirbillNo: aboratory -983-2137
RSF-100916-SW-20-1 DOSS Surface Water Grab 9116/2010 1300 2 20 mI VOA 4 C N SSF-100916-SW-20-1 DOSS Surface Water Grab 9116/2010 0954 6 20 mI VOA 4 C N SSF-100916-SW-20-1 DOSS Surface Water Grab 9116/2010 0954 6 20 mI VOA 4 C N SSF-100916-SW-20-1 DOSS Surface Water Grab 9116/2010 0954 6 20 mI VOA 4 C N SSF-100916-SW-20-1 DOSS Surface Water Grab 916/2010 0954 6 20 mI VOA 4 C N Refinquished by Date Richard by Date Time Items/Reason Refinquished by Date Received by Date AMM AMM MAGO AM AMM	100916-SWV-10-1 DOSS Surface Water Grab 9116/2010 1300 2 20 m/VOA 4 C N -100916-SWV-20-1 DOSS Surface Water Grab 9116/2010 09-54 5 20 m/VOA 4 C N -100916-SWV-20-1 DOSS Surface Water Grab 9116/2010 09-54 5 20 m/VOA 4 C N -100916-SWV-20-1 DOSS Surface Water Grab 9116/2010 09-54 5 20 m/VOA 4 C N -100916-SWV-20-1 DOSS Surface Water Grab 9116/2010 09-54 5 20 m/VOA 4 C N -100916-SWV-20-1 DOSS Surface Water Grab 9116/2010 09-54 5 20 m/VOA 4 C N -100916-SWV-20-1 DOSS Surface Water Grab 9116/2010 09-54 5 20 m/VOA 4 C N -100916-SWV-20-1 DOSS Surface Water Grab 9116/2010 09-54 5 20 m/VOA 4 C N -100916-SWV-20-1 DOSS Surface Water Grab 9116/2010 09-54 5 20 m/VOA 4 C N -100916-SWV-20-1 DOSS Surface Water Grab 9116/2010 09-54 5 20 m/VOA 4 C N -100916-SWV-20-1 DOSS Surface Water Grab 9116/2010 09-54 5 20 m/VOA 4 C N -100916-SWV-20-1 DOSS Surface Water Grab 9116/2010 09-54 5 20 m/VOA 4 C N -100916-SWV-20-1 DOSS Surface Water Grab 9116/2010 09-54 5 2 20 m/VOA 4 C N -100916-SWV-20-1 DOSS Surface Water Grab 9116/2010 09-54 5 2 2 20 m/VOA 4 C N -100916-SWV-20-1 DOSS Surface Water Grab 9116/2010 09-54 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ab #		Analyses	Matrix	Collection	Collected	Sample	Numb	Container	Preservative	MS/MSD
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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

Α This sample was extracted at a single acid pH.

HTS Sample was prepared and/or analyzed past recommended holding time. Concentrations should be

considered minimum values.

AES Atomic Emission Spectrometer

CVAA Cold Vapor Atomic Absorption

ECD Electron Capture Detector

GC Gas Chromatograph

GFAA Graphite Furnace Atomic Absorption

ICP Inductively Coupled Plasma

MS Mass Spectrometer

NA Not Applicable

NPD Nitrogen Phosphorous Detector

NR Not Reported

TCLP Toxicity Characteristic Leaching Procedure

U Undetected

Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds per square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

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